

## Water-Data Report 2008

**01407770 SHARK RIVER AT BELMAR, NJ**

## SHARK RIVER BASIN

LOCATION.--Lat 40°10'52", long 74°01'49" referenced to North American Datum of 1983, Belmar Borough, Monmouth County, NJ, Hydrologic Unit 02030104, on concrete jetty in Belmar Municipal Marina next to floating fuel dock, 0.1 mi south of south end of Shark River Island, 0.3 mi southwest of bridge carrying State Route 35 over Shark River, and 1.2 mi southwest of Shark River Inlet.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--Unpublished fragmentary gage-height record, August 1997 to June 2000. Continuous-record tide gage, July 2000 to January 2002, September 2004 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is at 0.00 ft NAVD of 1988. To determine approximate elevations to NGVD of 1929, add 1.20 ft. To determine approximate elevations to Mean Lower Low Water datum, add 2.19 ft (revised to Tidal Epoch 1983-2001).

REMARKS.--Missing gage-height record on short portions of days. Summaries for months with short periods of missing gage-height record have been estimated with little or no loss of accuracy. Some periods cannot be estimated and are noted by dashed (---) lines. Satellite stage telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation recorded, 5.16 ft, Feb 12, 2006; minimum elevation, estimated at -5.6 ft, Mar 9, 2008.

EXTREMES FOR CURRENT YEAR.--Maximum elevation recorded, 4.91 ft, May 12; minimum elevation, estimated at -5.6 ft, Mar 9.

Statistics of Tide Elevations, in feet  
Water Year October 2007 to September 2008

Month	Mean High Tide	Mean Water Level	Mean Low Tide
October	2.18	0.05	-2.09
November	1.90	-0.21	-2.36
December	1.71	-0.38	-2.53
CALENDAR YEAR 2007	1.84	-0.25	-2.40
January	1.64	-0.45	-2.55
February	1.62	-0.46	-2.66
March	1.62	-0.43	-2.51
April	1.99	-0.08	-2.21
May	2.40	0.22	-1.95
June	2.11	-0.04	-2.22
July	2.07	-0.11	-2.28
August	2.19	0.03	-2.13
September	2.29	0.18	-1.94
WATER YEAR 2008	1.98	-0.14	-2.28

## 01407770 SHARK RIVER AT BELMAR, NJ—Continued

**GAGE HEIGHT, FEET**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
[e, estimated]

Day	High-high	Mean	Low-low	High-high	Mean	Low-low	High-high	Mean	Low-low	High-high	Mean	Low-low
	<b>October</b>				<b>November</b>				<b>December</b>			
<b>1</b>	2.92	-0.05	-2.38	1.96	-0.35	-2.48	0.46	-1.49	-3.33	1.25	-0.39	-2.42
<b>2</b>	2.58	0.01	-2.02	2.20	0.20	-1.69	1.30	-0.42	-2.16	1.02	-0.90	-2.72
<b>3</b>	2.27	0.01	-1.83	3.46	1.52	-1.11	2.18	-0.60	-3.51	1.02	-0.83	-2.47
<b>4</b>	1.96	-0.06	-2.13	1.84	-0.18	-2.60	0.46	-1.52	-3.36	1.51	-1.01	-3.24
<b>5</b>	1.85	-0.13	-2.30	1.90	-0.14	-2.36	1.20	-0.53	-2.15	0.80	-1.15	-3.10
<b>6</b>	1.96	-0.14	-2.00	2.58	-0.04	-2.63	1.96	-0.26	-2.30	1.57	-0.58	-2.58
<b>7</b>	2.66	0.21	-2.36	1.63	-0.51	-2.67	1.83	-0.52	-2.69	2.21	-0.32	-2.58
<b>8</b>	2.45	0.27	-2.01	2.24	-0.13	-2.41	1.70	-0.79	-2.98	2.15	-0.47	-2.84
<b>9</b>	3.22	0.75	-2.02	2.45	0.03	-2.24	1.82	-0.72	-3.20	2.54	-0.58	-3.40
<b>10</b>	3.46	0.89	-1.46	3.10	0.52	-1.61	2.33	-0.26	-2.69	1.96	-0.78	-3.39
<b>11</b>	3.49	1.05	-1.37	2.85	0.37	-1.77	2.31	-0.31	-2.66	2.83	-0.10	-2.68
<b>12</b>	2.92	0.34	-1.90	1.92	-0.38	-2.60	1.96	-0.82	-3.39	2.22	-0.29	-2.84
<b>13</b>	2.50	0.08	-2.11	2.11	-0.20	-2.11	2.33	-0.12	-2.50	3.12	0.13	-2.16
<b>14</b>	2.15	-0.21	-2.32	2.12	-0.02	-1.78	2.20	-0.11	-2.54	2.90	0.74	-1.69
<b>15</b>	2.04	-0.21	-1.96	2.28	-0.07	-2.39	2.37	-0.27	-2.38	2.44	-0.18	-2.58
<b>16</b>	1.90	-0.20	-1.91	0.74	-0.93	-2.99	4.38	1.31	-1.71	1.85	-0.85	-2.94
<b>17</b>	1.84	-0.09	-1.65	1.11	-0.93	-2.64	-0.48	-2.18	-4.04	2.28	-0.06	-2.07
<b>18</b>	1.98	0.06	-1.35	1.69	-0.30	-2.08	0.79	-1.22	-3.23	3.06	-0.17	-3.11
<b>19</b>	2.17	0.37	-1.16	2.13	0.18	-1.98	1.68	-0.42	-2.69	1.87	-0.59	-2.96
<b>20</b>	1.91	0.04	-2.26	2.24	-0.03	-2.67	2.61	-0.21	-2.69	2.64	-0.63	-3.92
<b>21</b>	1.61	-0.49	-2.70	2.58	0.16	-2.49	3.42	0.88	-1.81	1.70	-1.15	-3.94
<b>22</b>	1.95	-0.37	-2.79	3.36	0.24	-3.54	3.74	0.46	-2.28	2.09	-0.97	-4.15
<b>23</b>	2.45	-0.06	-2.46	3.13	-0.33	-3.24	3.63	0.35	-2.65	2.29	-0.88	-3.68
<b>24</b>	2.43	-0.20	-3.14	3.04	-0.39	-3.52	3.04	-0.66	-3.85	2.60	-0.48	-3.41
<b>25</b>	3.56	0.59	-2.87	2.94	-0.61	-3.70	2.44	-1.08	-4.00	1.92	-0.70	-3.30
<b>26</b>	4.01	0.65	-2.52	3.06	-0.32	-3.44	2.83	-0.23	-3.50	2.15	-0.54	-2.96
<b>27</b>	4.00	0.22	-2.83	2.46	-0.91	-3.70	3.74	0.62	-2.09	2.21	0.30	-1.76
<b>28</b>	2.87	-0.51	-3.29	1.93	-1.12	-4.03	2.14	-0.20	-2.55	3.00	0.77	-1.25
<b>29</b>	3.05	-0.36	-2.99	2.10	-0.56	-2.77	2.03	-0.08	-2.34	2.52	0.26	-1.48
<b>30</b>	2.44	-0.53	-2.86	1.51	-0.93	-2.84	1.51	-0.20	-2.16	2.17	-0.60	-2.58
<b>31</b>	2.24	-0.38	-2.40	---	---	---	2.68	-0.23	-2.60	0.54	-1.09	-2.24
<b>Max</b>	4.01	1.05	-1.16	3.46	1.52	-1.11	4.38	1.31	-1.71	3.12	0.77	-1.25
<b>Min</b>	1.61	-0.53	-3.29	0.74	-1.12	-4.03	-0.48	-2.18	-4.04	0.54	-1.15	-4.15

## 01407770 SHARK RIVER AT BELMAR, NJ—Continued

**GAGE HEIGHT, FEET**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
[e, estimated]

Day	High-high	Mean	Low-low	High-high	Mean	Low-low	High-high	Mean	Low-low	High-high	Mean	Low-low
	<b>February</b>			<b>March</b>			<b>April</b>			<b>May</b>		
<b>1</b>	1.48	0.25	-1.07	1.35	-0.60	-2.22	1.11	-0.78	-2.60	2.06	0.02	-2.30
<b>2</b>	0.91	-1.30	-3.12	0.18	-1.24	-2.77	0.45	-1.21	-3.58	2.79	0.23	-2.35
<b>3</b>	1.03	-1.04	-2.94	1.02	-0.76	-2.46	1.39	-1.01	-3.60	3.91	0.75	-2.09
<b>4</b>	1.87	-0.42	-2.42	1.43	-0.62	-2.93	2.36	-0.37	-3.31	3.52	0.45	-2.67
<b>5</b>	2.39	-0.10	-2.40	2.79	-0.25	-3.06	3.02	-0.06	-3.26	3.63	0.02	-2.97
<b>6</b>	2.79	0.00	-2.72	2.13	-0.46	-3.20	3.96	0.47	-2.96	3.60	-0.06	-3.04
<b>7</b>	2.95	0.13	-2.74	3.06	-0.01	-2.94	4.29	0.75	-2.26	3.65	-0.04	-3.03
<b>8</b>	3.27	0.25	-2.41	3.22	0.19	-2.37	3.30	0.34	-2.52	2.93	-0.14	-2.77
<b>9</b>	2.75	-0.04	-2.80	0.79	e-2.4	e-5.6	3.02	-0.22	-2.80	3.03	0.50	-2.72
<b>10</b>	2.66	-0.62	-3.38	1.86	-1.41	-4.43	1.65	-0.30	-2.70	3.88	0.73	-1.40
<b>11</b>	0.29	---	-4.99	2.74	-0.60	-3.35	2.56	-0.14	-2.50	3.10	0.90	-1.49
<b>12</b>	0.65	-1.36	-3.95	1.48	-0.44	-3.00	2.74	0.16	-1.98	4.91	2.48	0.47
<b>13</b>	2.50	0.04	-2.11	2.00	-0.30	-2.68	2.30	0.08	-1.89	3.28	1.20	-0.92
<b>14</b>	2.59	-0.37	-2.52	2.51	0.01	-2.14	2.01	-0.04	-2.25	2.42	0.48	-1.81
<b>15</b>	1.99	-0.92	-3.06	2.91	0.54	-1.50	1.67	-0.29	-2.51	2.50	0.44	-1.66
<b>16</b>	1.51	-0.76	-2.87	3.27	0.75	-1.86	1.73	-0.37	-2.85	3.19	0.63	-1.63
<b>17</b>	2.22	-0.27	-2.56	2.13	-0.03	-2.18	2.37	-0.12	-2.61	2.75	0.56	-1.73
<b>18</b>	2.70	-0.13	-3.24	2.79	0.57	-1.78	2.41	0.06	-2.38	2.98	0.46	-1.93
<b>19</b>	2.12	-0.94	-4.09	3.15	0.86	-1.72	2.59	-0.07	-2.46	2.26	-0.02	-2.05
<b>20</b>	1.35	-1.28	-4.43	2.84	0.21	-2.29	2.90	0.14	-2.39	2.61	0.04	-2.45
<b>21</b>	1.80	-0.88	-3.69	1.08	-1.49	-4.19	2.50	0.18	-2.07	2.47	0.19	-2.19
<b>22</b>	2.73	-0.26	-3.34	2.12	-0.99	-4.17	2.14	-0.15	-2.40	2.16	-0.02	-2.09
<b>23</b>	2.56	-0.02	-2.68	1.93	-0.58	-3.13	2.03	-0.27	-2.43	2.13	-0.27	-2.46
<b>24</b>	1.83	-0.31	-2.70	1.80	-0.62	-2.91	1.92	-0.39	-2.40	2.03	-0.06	-2.17
<b>25</b>	1.63	-0.56	-2.60	2.05	-0.32	-2.66	1.10	-0.19	-2.09	1.24	-0.16	-2.12
<b>26</b>	2.36	-0.04	-2.24	1.43	-0.76	-2.63	1.98	0.28	-1.54	1.79	-0.33	-2.32
<b>27</b>	1.02	-0.24	-1.99	0.67	-0.55	-2.26	2.11	0.27	-1.31	1.49	-0.52	-2.58
<b>28</b>	1.23	-1.11	-2.66	1.70	-0.17	-1.58	2.00	0.56	-0.87	1.35	-0.40	-2.33
<b>29</b>	0.91	-0.60	-1.92	1.42	-0.55	-2.05	2.25	0.29	-1.40	1.50	-0.55	-2.81
<b>30</b>	---	---	---	1.03	-0.70	-1.97	1.88	0.03	-1.97	2.02	-0.49	-3.04
<b>31</b>	---	---	---	0.91	-0.57	-2.12	---	---	---	2.42	-0.15	-2.63
<b>Max</b>	3.27	0.25	-1.07	3.27	0.86	-1.50	4.29	0.75	-0.87	4.91	2.48	0.47
<b>Min</b>	0.29	-1.36	-4.99	0.18	e-2.4	e-5.6	0.45	-1.21	-3.60	1.24	-0.55	-3.04

## 01407770 SHARK RIVER AT BELMAR, NJ—Continued

**GAGE HEIGHT, FEET**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
[*e*, estimated]

Day	High-high	Mean	Low-low	High-high	Mean	Low-low	High-high	Mean	Low-low	High-high	Mean	Low-low
	<b>June</b>				<b>July</b>				<b>August</b>			
<b>1</b>	2.98	-0.18	-2.89	3.30	0.06	-2.60	3.55	0.29	-2.68	2.61	-0.14	-2.87
<b>2</b>	3.21	-0.11	-2.96	3.29	-0.12	-2.86	3.38	0.27	-2.67	2.64	0.05	-2.69
<b>3</b>	3.44	-0.18	-3.15	3.02	-0.28	-3.15	2.82	0.11	-2.67	2.85	0.31	-1.95
<b>4</b>	3.53	-0.08	-3.05	3.17	-0.31	-3.42	2.50	-0.06	-2.84	2.19	-0.05	-2.08
<b>5</b>	3.33	-0.14	-3.08	3.03	-0.05	-2.94	2.55	0.03	-2.58	1.89	-0.20	-1.99
<b>6</b>	2.97	-0.20	-2.88	2.66	-0.12	-2.84	2.44	0.20	-2.06	2.21	0.33	-1.42
<b>7</b>	2.51	-0.34	-2.98	2.10	-0.18	-2.74	2.47	0.30	-1.73	1.70	-0.40	-1.81
<b>8</b>	1.74	-0.31	-2.88	2.05	-0.26	-2.61	2.32	0.29	-1.31	1.37	-0.27	-1.85
<b>9</b>	2.32	-0.09	-2.62	1.88	-0.23	-2.38	2.11	0.10	-1.56	1.44	-0.08	-1.66
<b>10</b>	2.04	0.00	-2.28	1.90	-0.19	-2.27	2.04	0.11	-1.31	1.97	-0.04	-1.87
<b>11</b>	1.99	-0.10	-2.30	1.98	-0.08	-1.94	1.84	0.18	-1.54	1.86	-0.15	-1.69
<b>12</b>	1.82	-0.25	-2.32	1.77	-0.15	-1.83	1.86	0.07	-1.29	2.15	-0.10	-2.20
<b>13</b>	1.86	-0.30	-2.25	2.12	-0.02	-1.67	2.22	0.00	-1.93	2.54	-0.02	-2.34
<b>14</b>	2.42	-0.02	-1.87	2.15	0.02	-1.71	2.67	0.16	-1.95	2.85	0.28	-2.28
<b>15</b>	2.84	0.35	-1.76	2.22	-0.04	-1.90	2.69	0.24	-1.87	2.36	-0.11	-2.67
<b>16</b>	2.96	0.41	-1.48	2.38	-0.05	-2.13	2.62	-0.06	-2.33	2.81	-0.08	-2.99
<b>17</b>	2.69	0.35	-1.62	2.43	-0.12	-2.30	2.66	-0.11	-2.68	2.97	0.03	-2.72
<b>18</b>	2.73	0.32	-1.90	2.42	-0.16	-2.42	2.48	-0.25	-2.88	2.98	-0.01	-2.78
<b>19</b>	2.66	0.23	-1.85	2.30	-0.25	-2.56	2.22	-0.22	-2.90	3.73	0.57	-2.04
<b>20</b>	2.42	0.01	-2.25	2.32	-0.26	-2.78	2.40	-0.15	-2.52	2.92	0.24	-1.93
<b>21</b>	2.29	-0.13	-2.41	2.27	-0.15	-2.69	2.21	-0.37	-2.94	2.47	-0.05	-2.12
<b>22</b>	2.30	-0.12	-2.38	2.18	-0.08	-2.59	2.21	-0.41	-2.71	2.48	0.09	-1.91
<b>23</b>	2.13	-0.05	-2.23	2.24	-0.01	-2.45	2.14	-0.33	-2.55	2.66	0.41	-1.71
<b>24</b>	1.46	-0.22	-2.46	2.42	-0.07	-2.26	2.29	-0.20	-2.31	2.79	0.46	-1.60
<b>25</b>	1.75	-0.41	-2.63	2.09	-0.24	-2.50	2.44	-0.12	-2.28	3.64	1.16	-0.90
<b>26</b>	1.96	-0.19	-2.49	2.32	-0.21	-2.54	2.59	0.06	-2.33	3.65	1.22	-1.37
<b>27</b>	2.32	0.03	-2.29	2.76	---	-2.23	2.78	0.16	-2.08	3.10	0.49	-2.12
<b>28</b>	2.68	0.14	-2.18	2.88	---	-2.21	3.15	0.22	-2.34	3.20	0.57	-2.07
<b>29</b>	3.04	0.20	-2.29	2.88	0.03	-2.45	3.31	0.37	-2.28	3.18	0.39	-2.15
<b>30</b>	3.17	0.11	-2.51	3.33	0.12	-2.58	2.97	0.08	-2.64	3.13	0.41	-2.17
<b>31</b>	---	---	---	3.55	0.28	-2.49	2.63	-0.08	-2.81	---	---	---
<b>Max</b>	3.53	0.41	-1.48	3.55	0.28	-1.67	3.55	0.37	-1.29	3.73	1.22	-0.90
<b>Min</b>	1.46	-0.41	-3.15	1.77	-0.31	-3.42	1.84	-0.41	-2.94	1.37	-0.40	-2.99

**01407770 SHARK RIVER AT BELMAR, NJ—Continued**